(19) 世界知的所有権機関 国際事務局



PCT

] [[1]] | [[1]] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1] | [1]

(43) 国際公開日 2006 年5月18日(18.05.2006) (10) 1 際公開番号 WO 2006/051898 Al

(51) 国際特許分類: G02B 6144 (2006.01)

(21) 国際出願番号:

PCT/JP2005/020707

(22) 国際出願日:

2005年11月11日(11.11.2005)

(25) 国際出願の言語:

日木語

(26) 国際公開の言語:

日木語

(30) 優先権子一タ: 特願 2004-327950

2004年11月11日(11.11.2004) JF

- (71) 出願人 (米国を除 < 全ての指定国について): 住友電気工業株式会社 (SUMITOMO ELECTRIC INDUSTRIES, LTD.) [JP/JP], 〒54 1004 1 大阪府大阪市中央区北浜四丁目5番33号 Osaka (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 横川 知行 (YOKOKAWA, Tomoyuki) [JP/JP], 〒2448588 神奈/II 県横浜市栄区田谷町 1番地住友電気工業株式会社

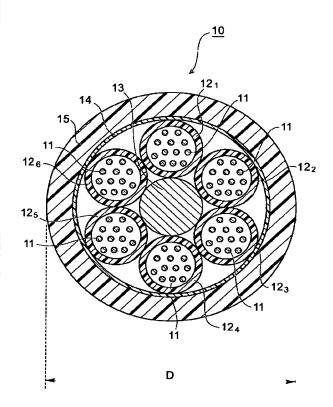
横浜製作所内 Kanagawa (JP). 笹岡 英資 (SASAOKA, Eisuke) [JP/JP],〒2448588 神奈川県横浜市栄区田谷町 1 番地住友電気工業株式会社横浜製作所内 Kanagawa (JP).

- (74) 代理人:長谷川芳樹 外(HASEGAWA, Yoshiki et al.), 〒1040061 東京都中央区銀座一丁目10番6号銀座 ファーストビル 創英国際特許法律事務所 Tokyo (JP).
- (81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, _C, _D, _E, _G, _K, SL, _M, _Y, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
- (84) 指定国 俵 示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD,

I続葉有1

(54) Title: OPTICAL CABLE

(54)発明の名称: 光ケーブル



(57) Abstract: An optical cable having a structure for reducing the outside diameter of the cable and/or improving the containing efficiency of optical fiber core while suppressing an increase in transmission loss of the optical fiber core. The optical cable has a loose-tube type structure constituted of a central tensile strength body, a plurality of tubes stranded around the tensile strength body, and a sheath coveπng the outer circumferences of the plurality of tubes. One or more op cal fiber cores are contained in each tube. Each optical fiber core has a mode field diameter A in the range of 8.6+0.4 fi m at a wavelength of 1.3 1 fi m and when the fiber cut-off wavelength is B fi m, a ratio A/B is 6.3 through 7.0.

(57) 要約: この発明に係る光ケーブルは、光 ファイバ心線における伝送損失の増加を抑制し つつケーブル外径の低減、及び/又は、光ファ イバ心線収納効率の改善を可能にするための構 造を有する光ケーブルに関する。 当該光ケーブル は、中心抗張力体と、それぞれが該抗張力体の周 りに撚り合わされた複数のチューブと、これら複 数のチューブの外周を被覆する外皮により構成さ れたルースチューブ型の構造を有する。各チュー ブ内には1又はそれ以上の光ファイバ心線が収 納されている。各光ファイバ心線は、波長1 3 1 μm において 8 . 6 ± 0 . 4 μm の範囲内の モードフィール ド径Aを有し、ファイバカット オフ波長をBµmとするときに、比A/Bは6. 3以±7.0以下である。

SL, SZ, TZ, UG, ZM, ZW), -x ーラシア (AM, AZ, BY, 添付公開書類: KG, KZ, MD, RU, TJ, TM), ョーロッパ (AT, BE, BG, **国際調査**報 CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, Ro, _E, SI, _K, TR), OAPI OF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

一 国際調査報告書

2文字コー K及び他の略語については、定期発行される 各PCTガゼットの巻頭に掲載されている「コードと略語 のガイダンスノート」を参照。